

ADDENDUM NO. 5 TO JPL RFP JTD-565939, dated April 22, 2003

The following question has been raised regard the subject RFP. JPL's answer follows on this and the next page:

- Q. Can SIM make available a histogram of Grid Star apparent magnitudes and metallicities? We can make guesses as to the distribution from the samples given in Addendum 1, but an accurate integration time calculation requires more information about the sources.**
- A. The following figures display the histograms of the visual apparent magnitude and the photometrically estimated metallicity for a *potential* grid star candidate set. The visual magnitude distribution has a mean of $V = 12.41 \pm 0.01$ mag, with minimum and maximum values of $V = 9.8$ mag and $V = 13.3$ mag, respectively. The metallicity distribution has a mean of $[Fe/H] = -0.9 \pm 0.01$, with minimum and maximum values of $[Fe/H] = -2.5$ and $[Fe/H] = -0.2$, respectively. Please note that these histograms may not be fully representative of the *final* grid star candidate list; however, it is anticipated that the distributions of final set of candidate stars will not be significantly fainter or more metal-poor than the set represented below (see next page).

